**Automatic Drive Type Detection**

Martin Eberhard 3 June 2021

These actions are preformed the first time a drive is selected

Yes

No

No

No

Yes

Track 0?

MAXI = 1

StepRate=8 mS

SeekComplete

=True?

MaxTrack=39

Seek Track 45

Yes

Seek Track 1

Track 0?

Success?

Drive not ready

No

Success?

40-track

5.25” drive

StepRate=6 mS

MaxTrack=79

QD 5.25” drive

8” drive

(SA800 or SA850)

MaxTrack=76

StepRate=8 mS

HD 5.25” drive

2Sided=TRUE

MaxTrack=79

StepRate=3 mS

3.5” drive

Voicecoil=TRUE

(Persci 277or 299)

Drive not ready

No

No

Seek Track 77

Seek Track 1

ID track 3

(try DD and SD)

MAXI = 1

MAXI = 0

StepRate=20 mS

ID track 3

(try DD and SD)

Yes

Yes

No

<220 mS?

Yes

<185 mS?

Voicecoil=FALSE

Restore

Measure Index Pulse Time

Yes

These actions performed every time the selected disk changes and the drive type is either an 8” drive or a 40-track 5.25” drive. (The other drive types are always 2-sided.)

Read Track ID

Select Side 0

Side 0?

Yes

2Sided=TRUE

StepRate=3 mS

2-sided drive

(with 2-sided diskette)

StepRate=3 mS

2-sided drive

(with 1-sided diskette)

1-sided drive

2Sided=FALSE

Side 1?

Yes

No

Ready?

No

Read Track ID

Select Side 1

Yes

No